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<110> Liang, Choong-Chin

<120> Method for the Detection of Asthma Related Gene Transcripts in Blood

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<151> 2001-07-13

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<170> PatentIn version 3.2

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caaataaaca aaaactttcca atctccattt aaaat 155

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gggtttcccg gggaacccaa ccctttaagg ggtngggggg aatttcccc caaaaaaagg 120  
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cccacatttc catttttaat atatactgtg ctttacaat attataatat gttttaaaat 180  
atgttcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaaa ataagcattc 240  
tttgaatata tatttagttt tttaatgtgg taggaaaatc aaagccagag ggagtagaaa 300  
caaaatttgt gattttctaa atacttcttg gctgcaggga agaaaccacg tcccaggcga 360  
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accaagatgg tcaacaga 438

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aaagggggaa ggcccccaa accggggggg gggnaaaaag gtgggtttcc ccctttttcc	180
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 ggggggnccaa accggnaaag gntttgggaa aaccaaattt tttttggncc caaccccccc 120  
 caaattgggg ggnaaaccaa atttaagggg ggaagggggg gncccccccg ggaaaggccc 180  
 aaggggggaa aattttttccg ggggtgggtn gggggaacca atttaagggg ggggcccccg 240  
 ggggggttcc ccttgggccn tttttccttt tgggtnaaaa aaaaaaaccc cttg 294

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 ctgtacttga actctaaaac tgttggagaa actcagtgtt taccccaaca gattcatttc 180  
 aaatagctgt aaaagggtatg tttactccag aagaccagag ttgcttcttt tgaacttctc 240  
 attccttggg cctaggaacc ctcatcaccc tcatcccaac gtcaaccag atcttctctt 300  
 ccataaacag cactccctca ggcccctgcc tgacacaggc atagactgtc atgttggatt 360  
 cacagacagg ctgtgctaga ggaaacctct ggggctcacc aggggccgtg ggatgggctt 420  
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 tttaggcggc accccaacaa caccaggccc tactttttcc aaggncgggg aagcccatgg 180  
 gttctgggna acgggcaatg cgggcttgca acgggnggaa naaaaacagn ccctaaaagaa 240  
 tg 242

<210> 20  
 <211> 181  
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<400> 20  
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 tctcagctca ctgcaacctc cacctctcag gagaattgct gaacctggga ggcggagggt 120  
 gcaggagct gagattgcgc cactgccctc catcctgggc gacagagcaa gaacctgtct 180  
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tnccccnccn nttnanacna aanntngcac tcttggtgc 100

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 cgggaaggcc nttggggaaa aaaccaangg ncaaaccccc ccaaccacnc ggcccccccc 120



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aaggggggtg gggaagagcc aaatttcttt gggaaanaac gcccccttgg ggaaaanaag 180  
gccaaccacc tttcaacanc cccaangcg nggaagccat ttcttgg 227

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ggaagaattg tatgtgggag tttttaatgg tctcatttca ttggctataa ctcagttaca 180  
aggagaaata taactgcaga ggagctttga aaatttagtt cagctgaggg taaaggaaga 240  
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 acgctctttt tgccgatcac caaacctagg cggggatgat caagctgggt atcgcgcgct 240  
 agcagcagga cacttttgcc cgggagcttt accgcttggg gagtcgaaga ctgccttгна 300  
 ttgccgggga gtcagcagtc gctttttccc ggncgaagcc tcgaactcac cancctgtct 360  
 ggattaatta gacagcaaga cgcttgcggc ccctttggcg cgaacgaacn ncgaaaagga 420  
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 gagaaccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggagggtta 180  
 gtcgggtact aaggcgtag cgaaggcgaa gcgccgatgt gaaggggggtt aatattcctc 240  
 cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag 300

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tgggcgccag caggggcggc cttcggggcca aaccgaacct caggtcanac ttccaagaaa	360
agtgggtgaa acgccagcgc atggcaaccc gtaccgcaaa ccgacacagg tagccggggg	420
anaacatcct aaggngctcg agagtacttt ctagagcggc cgcgggcccc atcgantttt	480
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gctggaaggc ttgnagggca gaaaagggat ccgccttttg gaggaacca ggtaaggttt	120
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231

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tgnaatacta ttgcctctta tatacacnac caannntgcg aagggcnann nnacctttnc 180

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ccngnctatc tactganga tgattgncag ngccnntggg tggcacnang ggnactgatg	360
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acattgttat tgccatt 317

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cccgggggag gggatatccg tttataaacc ccaagggtat tttcttagca aaataacttaa 180  
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tgggggcggc 430

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atcctactag cttggaggat ttgaaccgat tatgaatacg caatactccc ggtcctcatg 120

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tctaagactt gctagaaaca accaccacat ttgatgctta atcaccactc tgacgcgcat	300
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aataatcagg caaatcctta agaataaggg caattaagga tgactagccc tacaagattt	180
taaaaaggat tcattagttt aaaaaatgtg atgtagatac atgaataaaa taaaatcttg	240
aagtagatcc aaatatacat ggtcagattg aatacaataa agatggcatc gtagcagtgg	300
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cagaccaaac t	611

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gaacacatgc tgaagatcat ctaactcaat atggcgcata tttctatgtc ttgctgcccc 180  
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aggcacattg ttcctctatg ccccgctacg ctttgcccta gagctcggcg gtatctatat 240  
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attattttcc caacaaattg gcattcatag atagaataag ctgactaaga ctacttagcc 180  
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aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga	180
cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaaata tgacatgaaa	240
tgaaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatat tgaaatgaaa	300
ttgaaagatg agatgaaatg atgagatgaa atgaaatgtt gaaatgatga agagatgtga	360
catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga	420
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<210> 73  
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 <222> (233)..(233)  
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aaatgaaatt agatgaaatg taatgagatg aaatgaaatg acctaataa atgaaataat	120
gaaatgagat gaaataaaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa	180
tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga	240
gatgaaatga tgagatgaga tgaaatatga tgagttgaaa tgacataatg aatgaaatga	300
tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga	360
aatgatgaaa tgatgagatg aaatgatgaa atgaaataat gaaatgagat gaaataaaaat	420
aatgaaatga tgaaataatg aaatgaaaat gaaatggaaa tgatgagatg agaagaaatg	480
atgagatgaa atgatgaaat	500

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SEQLIST~1.TXT

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 tgaaatgatg agatgaaatg atgagatgag atgtgatgaa atgatgatat gaaatgatga 120  
 cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa 180  
 tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg 240  
 aatgatgaaa tgaaatgatg agatgagatg atgaaatgaa atggtgagat gaaatgatg 299

<210> 75  
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 <212> DNA  
 <213> Human

<400> 75  
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 taaaatgatg aaatgatgag gtgatgagat gaaatgatga gatgaaatga tgagatgaga 120  
 tgagatgaca tgaaataatg aaacgaaatt gaaat 155

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SEQLIST~1.TXT

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<223> n is a, c, g, or t

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cgccatgaaa tttctgctcg attagcttac gttgtttgga tagaggccaa acaaggctgt 180  
tatcggtacg aggaatggat gttcgatttc gtagaatacg cctgagagac ggcgaatact 240  
ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga 300  
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gtcattg 367

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<223> n is a, c, g, or t

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tcagtgtttg gggtttattt ttaaaagaat aggggtgccac cagatgttct ttagtggagg 180  
agaaatgagg ccagagtgcg tgcctagaaa attaagttgg taaattaatc acttttttct 240  
aggtcctttc ttagtct 257

<210> 78

<211> 373  
 <212> DNA  
 <213> Human

<220>  
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<220>  
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 <223> n is a, c, g, or t

<220>  
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<220>

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<220>

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<221> misc\_feature

<222> (166)..(166)

<223> n is a, c, g, or t

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nntaantaaa aagggtgaag aannttactt cncttggtcc taaaaaacnt tttcntcagt	120
tattaccaa atatttggac cattantaaa gantagggcc aaccnaatt tttcttgaaa	180
tttccgttaa atagccgtta aatgttttta cccatttcat attggatacc ttaaattata	240
ataatggatt ttattgttaa attgtgtgtg tgtggtgtgt atgccctgtc ttttctctc	300
taccattatt gtcactttat gtttgaacc ccctttacc ttccttaaag gaaaaaaagg	360
gcccggggtt ttt	373

<210> 79

<211> 128

<212> DNA

<213> Human

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<223> n is a, c, g, or t

<220>

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<222> (20)..(20)

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<222> (29)..(30)

<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

SEQLIST~1.TXT

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<400> 79  
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 tgtttggt 128

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 <212> DNA  
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 <222> (9)..(9)  
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<220>  
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<222> (166)..(167)

<223> n is a, c, g, or t

<220>

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (196)..(196)

<223> n is a, c, g, or t

<220>

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<222> (206)..(206)

<223> n is a, c, g, or t

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ggccaggcct tcccttttaaa aaaaaatnac cgtttttngg gggangnaac ctttaaaagg 120

ggaaaaanaaa tccttttttaa anggaantcc aaggggaagga ncctgnncaa nacttcccn 180

ccaataaaaa aaaccntttt ggaaangggg aaa 213

<210> 81

<211> 443

<212> DNA

<213> Human

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<223> n is a, c, g, or t

<220>

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<222> (33)..(34)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (39)..(39)

<223> n is a, c, g, or t

<400> 81

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tgatgaaatg agatgagatg agaagaaatg acttgatgag atgagataaa atgatgaaat 120

SEQLIST~1.TXT

gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg	180
aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat	240
gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa	300
tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa	360
tgaaatgttg aaatgaaatg aagagatgta acatgaaatg agctgaaatg atgagatgaa	420
atgaaatgaa atgagattaa atg	443

<210> 82  
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 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (121)..(121)  
 <223> n is a, c, g, or t

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gacctctgaa tgtattantg anncaagtga tagccaagat attttgaaga aaaatagata	120
ntagggacct gctctataag cccatcataa tttattatga agttataaca agtaaaacag	180
taagggtattt ggcatggaat agagaacca gaaacagacc caatgcatgg gtacaggata	240

SEQLIST~1.TXT

taacacaggg aaatgagga caatatatgg ttctgggata attatttata tggggaaaat	300
aaagaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaacttg	360
catgtgaaag gaaagacttt aaaacattta gaaaaagtat tggaggctat gatcttgggg	420
taggaaagca tttctttttt tt	442

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<400> 83 gtctaacnta aaaagtaaag aaagtaaagt aaaggnttga aggaaggaag gaaggaagga	60
aggagggaaa agaaagaaag gaaggaagga aggaaaagaa agaaagaaag gaaggaagga	120
aggaaggaag gaagg	135

<210> 84  
 <211> 346  
 <212> DNA  
 <213> Human

<220>  
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 <223> n is a, c, g, or t

<400> 84 ggaggaggaa gagtgatgag ttctctaant acttggttgg attagcctta gagttatcgg	60
gagttgcctt ctgtaagtgc ccctactatc aaggtttcat ggaaaatcta ggcaaggcag	120
aacttcctca gaaggacaag agacaaagaa gtggggggagg ccctcctatc catagctgag	180
agggtttatt ctttgtggtt ctgctgtcag agcctttgga tgtctgatct gagatggagc	240
aaccccagct agacagaact ttgtagattt tgggggggtt aaaaggcctc aagcaaattc	300
taaaactttc tttgaacccc ctggcatagg ctcagtttcc ctgact	346

<210> 85  
 <211> 100  
 <212> DNA  
 <213> Human



SEQLIST~1.TXT

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 gaaaagaaaa tgggtttttt tgccgaaatc aaccgggtaa 100

<210> 86  
 <211> 201  
 <212> DNA  
 <213> Human

<400> 86  
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 gaaaagagga agaaacgctt tttaggagtt aaggattaaa gtaaaaatta ttttgacata 120  
 attacctctt tttgtgacca ctcttaaagg ccaggaacat atttggagaa gcctagtgtg 180  
 atgtaacagt gtgggggtttc a 201

<210> 87  
 <211> 531  
 <212> DNA  
 <213> Human

<400> 87  
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 tctttttacc cggcactcgg gtccaccctc gcggcaccag aggtattctc cggcgagtcg 180  
 ttaaccatcg caatcgccga ccgagtttaa ggaccactcc ccacctttct cattagttaa 240  
 ggagaacgct actttacccc atagacggag aaatcgctac tcaactacca ggcgcgcgcc 300  
 gtcgagtcct tcttcctctc tttatgcatt tagagcgctt tcgtaagagt tttccctaga 360  
 ttcttctaag cgtagcgcgt ctactccaat gttttcggtt atccagcccg aactaacgcc 420  
 gcggaggagt cgatccgtct actcctatcc cgtcggctcg gatttactac aggagctaag 480  
 aaaacaaaaa gtaccagccc taaaggaaag tcaaaggacg cccgtaaaaa a 531

<210> 88  
 <211> 530  
 <212> DNA  
 <213> Human

<400> 88  
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 cattcgggtcc agtgccctcg cctattagcc cttaagccca ccgtttctaa aactcccaga 120  
 acagccaaac cggtcggccc aaggcctccg tcgttttata atatattccg tttacgtata 180  
 aggaacgaac ccccttcat taccacggtc ccgcgtccgc ctctttctcc attcgcaaca 240  
 gttctattcc tttcagctc ccgtacctgc ttccagaaca tcgcaccgcc atagtcgaaa 300  
 gatagcaaag attaccagc ttctattcct cgccccagag ccgagtaaat cgaagtttat 360

SEQLIST~1.TXT

agaggcggaa tccaaccatt caagagttat aacaagttat cggcactcgg gggatcagaa	420
tataaactta atgtccccc ttattctccc gacgcccctt ttaaccactt cttcctatct	480
ttcgctaaca agccattgac ggcgctttgc cgcgcgggcc catctcgcgt	530

<210> 89  
 <211> 332  
 <212> DNA  
 <213> Human

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<220>  
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 <223> n is a, c, g, or t

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SEQLST~1.TXT

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ttccaccggc ctggttttgg tttttccata attaattaac caggggggcc anttaaaaaa 120  
aattaaggna aggnnttaaaa aatttaacca angggggggtt taaagggnntt ttttttttta 180  
aaaaaaaagg ttaaancccc cccttttttt ttgggttggg gtgggaaaat tttgggaanc 240  
cttaaccccc gggtttttgg gtttttttgg ccaaaccccc ccggaaaaaa attaaaaaaa 300  
ggaccggttt ccattttaat gggatttggg aa 332

<210> 90  
<211> 185  
<212> DNA  
<213> Human

<400> 90  
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cggtggtaac tattaaaaca taagtttaat cggtatttaa aatttttaaaa tcaaaaaaaaa 120  
taaaatatat gcaaccctcc attccaagga agtatgatgt tactagatta tctgaaaatt 180  
ctcct 185

<210> 91  
<211> 365  
<212> DNA  
<213> Human

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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tcgttatgct ttccaatcct gcttgcaata taagacacaa agtcagaata aagctcaaga 180  
aaacagaacg tgcaggccat caagcgcaga gcctgctcat tggacaaccg caaagagtag 240  
taagtgtgc cgctattcac acttagaaaa ggagaaccac ggggaaaaac caaattaatg 300  
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ttgta 365

<210> 92  
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<210> 93  
 <211> 210  
 <212> DNA  
 <213> Human

<400> 93  
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 atgaaaatgt tactgttgga ttaaaaaaca aattaagtcc aaatagtgat taggcaagtt 120  
 ggtgaggtag ggggttgctg caagagcgga agttgaaaga tcttggaata attaaagaaa 180  
 cttcatagaa ccccatctct acacaaaaaa 210

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 <213> Human

<220>  
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<220>  
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SEQLIST~1.TXT

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aaaaatagat aatggtaatc caagcacgat ggtagccatc actctaattg ctttgggggtt 180  
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24

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